BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to roads, drains and other developmental works in Ward No- 01 &02. Under SWM head in Chief Minister Nava Nagarothana grants of Yelahanka division.(Package -07)

Sl No	Description of Work	Unit	BOQ Qty	Executed Qty	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20
1	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications.	Cum	4102.00	4101.95					
2	KSRB 2-2.1 : Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications.	Cum	5817.74	4750.57					
3	KSRB 4-1.7 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications.	Cum	1824.45	796.82					
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of	Cum	2175.48	1685.96					
5	KSRRB M 2200-6 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.	Tonne	135.59	105.52					
6	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting , including form work, cost of alll materials, labour,hire charges of chinery,loading ,unloading ,lead and lift, transportation etc ,copmplete.	Sqm	5139.00	4141.64					
7	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge.	Sqm	283.20	227.40					
8	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.	Nos	8422.00	8375.00					
9	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.	Sqm	1706.40	1498.08					

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	3 M600-1. Construction of dry lean cement concrete mix CC 1:5:10 with OPC cement 0Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine regates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate nforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after lending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum	Cum	963.60	267.13	
	tructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to 18:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work	Cum	849.35	261.13	
12	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method byrotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications.	Cum	1667.10	1631.54	
13	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications	Cum	1667.10	1665.20	
14	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications	Sqm	11114.00	11084.16	
15	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications.	Sqm	11566.00	8453.00	
16	KSRRB M500-17. Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507	Cum	727.62	727.48	
17	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 0.25 kg per sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.	Sqm	31420.80	16758.50	
18	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP- 53-	Cum	915.84	670.34	
19	Providing and fixing of retro - reflectorised cautionary, mandatory and informatory sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 em x 45 cm x 60 em, 60 cm below ground level as per approved drawing	Nos	2880.00	0.00	
20	KSRRB M800-4. Direction and Place Identification Signs / Project Information Board with size more than 0.9 sqm Size Board:-Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of high intensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm , 2 Nos. firmly fixed to the ground by means of properly	Nos	19.00	19.00	

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	B M800-13. Road Marking with Hot Applied 'Thermoplastic Compound with Reflectrising s Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is xclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform nd free from streaks and holes complete as per specifications.	Sqm	1063.46	434.85	
	ain water harvesting work including 40mm jelly, 20mm jelly coarse sand, fine sand, 12.50 mm chips as per data rates	Nos	47.00	35.00	
23	KSRRB M200-24. Dismantling of cement concrere pavement by mechanical means using pneumatic tools ,breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials separately complete as per specifications.	Cum	346.80	346.80	
24	Removing &refixing stone slab of drain	Sqm	37.13	0.00	
25	Providing granite slabs of selected quality roughly fressed and fixed in cement mortar (1:6) including fixing curing etc., complete -do- 10 cms thick (pagNo27. Ino 5.31.2) + (KSRB 5-8.2. Providing two line dressing to granite stone slab/ granite stone masonry as per specifications	Sqm	111.38	0.00	
26	KSRB M300-19 Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5	Cum	57.38	0.00	
27	Fabricating, providing and erecting in position of Hot Dip Galvanised Gate Using 72X72X4.8mm Sq.Gi Pipe frame with top pipe bending in heavy duty hydraulic press with sand packing and hot bending to from double arch as per drawing profile,20mm hot dip galavanised forged ornamental design in between shown in the drawing including providing hot dip galvanised forged ornamental designin between sq roads and heads at top, middle and bottom. intermediate	Sqm	68.00	68.00	

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